Appl. No. 10/505,287; Docket No. FR02 0010US Amdt. dated November 17, 2006 Response to Final Office Action dated October 25, 2006

REMARKS/ARGUMENTS

Claims 1-9 remain pending in this application.

Claim 1 has been amended to more clearly present the feature of "depositing a single intermediate layer" of Applicant's invention.

Claims 1-3 and 7-9 still stand rejected under 35 U.S.C. §102(b) as being anticipated by *Hause et al.* (U.S. Patent 5,834,625, hereinafter *Hause*).

Claims 4-6 still stand rejected under 35 U.S.C. §103(a) as being unpatentable over Hause in view of Wolf, Silicon Processing for the VLSI Era, Vol 4, Lattice Press (2002) hereinafter Wolf.

The §102 Rejection

Applicant respectfully reiterates his traversal of the rejection, in that claim 1, as amended, is not anticipated by *Hause*. Upon another review of the Office Action, Applicant notes "etching mask (108) on the intermediate layer (104/106)" has "a border layer 106...formed on the upper surface of interlevel dielectric layer 104 (col. 6, lines 29-30 and FIG. 2)." There are two layers, the border layer 106 and the interlevel dielectric layer 104.

In contrast, Applicant's claimed features, as amended, only include "depositing a single intermediate layer of material (14) on a substrate (Claim 1)." There is only a single layer.

Consequently, Hause does not anticipate Applicants' invention.

In view of the foregoing, Applicants respectfully assert that the rejections under 35 USC 102(b) be withdrawn for Claims 1-3 and 7-9.

The §103 Rejection

Applicant respectfully reiterates his traversal of the rejection in that a *prima facie* case for obviousness has not been made.

With respect to claim 4, the Office Action concedes that *Hause* does not expressly disclose that the side-walls of the aperture are coated by means of a dielectric material having a low dielectric constant. However, the citation of *Wolf* does not make up for this

Appl. No. 10/505,287; Docket No. FR02 0010US Amdt. dated November 17, 2006 Response to Final Office Action dated October 25, 2006

deficiency, in that *Hause* neither suggests nor teaches low dielectric constant material coatings as used in the context of Applicant's invention.

Furthermore, the wafer fabrication arts involve the use of manufacturing processes that are often specific to a family of product. One skilled in the art would not take the suggestion to willy-nilly combine two disparate semiconductor processes to come up with a third process, as in the case of the present rejection. In these processes, a number of recipes are combined to build layers of an integrated circuit device resulting in, ultimately, a complete functioning device. Hause, in not making a mention of the use of low-k dielectric, would not lead the artisan to modify his process to use a low-k dielectrics. Applicant contends that to modify Hause in this manner (according to Wolf) would destroy the intent of Hause.

References are not properly combinable or modifiable if their intended function is destroyed. The CCPA and the Federal Circuit have held that when a 103 rejection is based upon a modification of a reference that destroys the intent, purpose or function of the invention disclosed in the reference, such a proposed modification is not proper and the prima facte case of obviousness can not be properly made. See in re Gordon, 733 F. 2d 900, 221 USPQ 1125 (Fed. Cir 1984).

With respect to claim 5, the Office action concedes that *Hause* does not expressly disclose that "the dielectric material of the coating layer is chosen among fluorous glass.." By the arguments present *supra*, in reference to claim 4 the Office Action does not make the case for obviousness under \$103.

With respect to claim 6, again as in the discussion of claims 4 and 5, combining *Hause* with *Wolf* does not make up for the deficiencies of *Hause*. The structure proposed in the Office Action is neither taught nor suggested by either reference alone or in combination.

Consequently, a case for obviousness under §103 has not been made. Applicants request that the §103 rejections for claims 4-6 be withdrawn.

Appl. No. 10/505,287; Docket No. FR02 0010US Amdt. dated November 17, 2006 Response to Final Office Action dated October 25, 2006

Conclusion

Applicant believes he has addressed the Examiner's concerns. Applicant asserts that the claims, as presently amended, are allowable over the cited references. Applicant earnestly requests that a timely Notice of Allowance be forthcoming.

Please charge any fees other than the issue fee and credit any overpayments to Deposit Account 50-4019.

Respectfully submitted,

Date: 17- NOV- 2006

Peter Zawilski

Registration No. 43,305

(408) 474-9063

Correspondence Address:

NXP, B.V.
Intellectual Property Department
(formerly Philips Intellectual Property & Standards)
1109 McKay Drive; Mail Stop SJ41
San Jose, CA 95131 USA

CUSTOMER NUMBER: 65913